ENVIRON

October 23, 2006

Mr. Matthew Ohl
USEPA Region 5
77 West Jackson Blvd.
Mail Code: HSRW-6J
Chicago, IL 60604-3590

Re: TBCW Piezometer Installation
Enviro-Chem Superfund Site
Zionsville, Indiana

Dear Mr. Ohl:

This letter report has been prepared to present the details of the piezometer installation activities recently conducted at the Environmental Conservation and Chemical Corporation (ECC) Superfund Site (the "Site") on behalf of the ECC Site Trust Fund. The piezometers were installed as part of the thin barrier curtain wall (TBCW) portion of the Attachment Z-1 Remedy to allow monitoring of hydraulic gradients in the till and the sand and gravel units near the TBCW.

Twelve piezometers were installed in four sets of three, along the TBCW. For each set of piezometers, one piezometer was installed in the till unit downgradient of the TBCW (PT designation); a second piezometer was installed in the till unit upgradient of the TBCW (PT designation); and a third piezometer was installed within the sand and gravel unit, adjacent to the upgradient till unit piezometer (PS designation).

The piezometers were installed by Earth Exploration, Inc. of Indianapolis, with ENVIRON oversight, immediately after completion of the TBCW in June 2006. Procedures for the piezometer installation were provided in the *Design Report for the Thin Barrier Curtain Wall and the Till Water Pump Testing*, dated September 2005, and are summarized below. The surveyed locations of the TBCW piezometers are shown on Figure 1.

Sand and Gravel Unit Piezometer Installation

The sand and gravel unit piezometer borings were performed first, using water rotary drilling methods. In order to confirm the depth of the upper and lower till units, split-spoon soil samples were taken at 2-foot intervals. The soils were logged and screened for organic vapors using a photoionization detector (PID). Results are provided on the well logs presented in Attachment 1.

Initially, each sand and gravel piezometer borehole was extended to approximately the base of the till unit as determined by observation of the split-spoon samples. In order to prevent potential cross contamination of the lower units from the shallow till zone, a 10-inch ID steel casing was set to that depth and sealed with bentonite before the boring was continued. After several days, when the bentonite slurry was set, a smaller borehole was drilled through the sealed interval and the split-spoon sampling continued to the lower till (hard silt/clay zone) below the sand and gravel unit.[1]

The sand and gravel piezometers (PS-1, PS-2, PS-3, and PS-4) were installed through the steel casing to a depth of approximately 2 feet above the bottom of the sand and gravel unit (top of the

[1] After extending the boring through the casing at two of the proposed sand and gravel piezometer locations, sand and gravel was not encountered. The soil information for these locations is shown on boring logs PS-2-O (original location) and PS-3-O (original location). New locations were chosen for PS-2 and PS-3 as shown on Figure 1.

The sand and gravel piezometers (PS-1, PS-2, PS-3, and PS-4) were installed through the steel casing to a depth of approximately 2 feet above the bottom of the sand and gravel unit (top of the lower till silt/clay zone). Two-inch diameter PVC well screen (0.10-inch slot) was installed from the base of piezometer to within 5 feet of the top of the sand and gravel unit, then threaded with solid PVC riser pipe extending to the ground surface.

Annular materials included filter sand from the base of the boring to approximately two feet above the top of the screen. A bentonite pellet seal was installed from the top of the filter sand. The bentonite seal is approximately three feet thick and located to extend above the till/sand interface, except at Piezometer PS-1 where the pellet bentonite seal was extended into the 10-inch casing. After the bentonite pellets were hydrated, the remaining annular space was filled with cement bentonite grout. Each sand and gravel piezometer was completed at the ground surface with a flush well protector collar and cover anchored by a surrounding concrete pad.

Till Unit Piezometer Installation
The till unit piezometers were drilled using the hollow-stem auger method. A 4.25-inch hollow-stem auger was advanced to approximately 3 feet above the top of the sandy soils or the sand and gravel zone as determined by borings PS-1 through PS-4. No soil sampling was conducted at the till piezometer locations. Well logs are included in Attachment 1.

PVC well screen (2-inch diameter) was installed within the till unit, with screen lengths ranging from 2 feet to 8 feet. PVC riser pipe was threaded onto the PVC screen and extended to the ground surface. Annular materials include filter sand from the base of the boring to 2 feet above the top of the screen. The remaining annulus was backfilled with bentonite chips as the augers were extracted. Each till piezometer was completed at the ground surface with a flush well protector collar and cover, anchored by a surrounding concrete pad.

Piezometer Development
The piezometers were developed on June 22 and 23, 2006. The till piezometers were bailed dry at least twice. The sand and gravel piezometers were developed by pumping using a whaler pump. Over 10 well volumes of ground water were removed from each of the sand and gravel piezometers.

Please do not hesitate to call us if you have any questions or require additional information concerning the completion of the installation of the TBCW piezometers.

Sincerely,

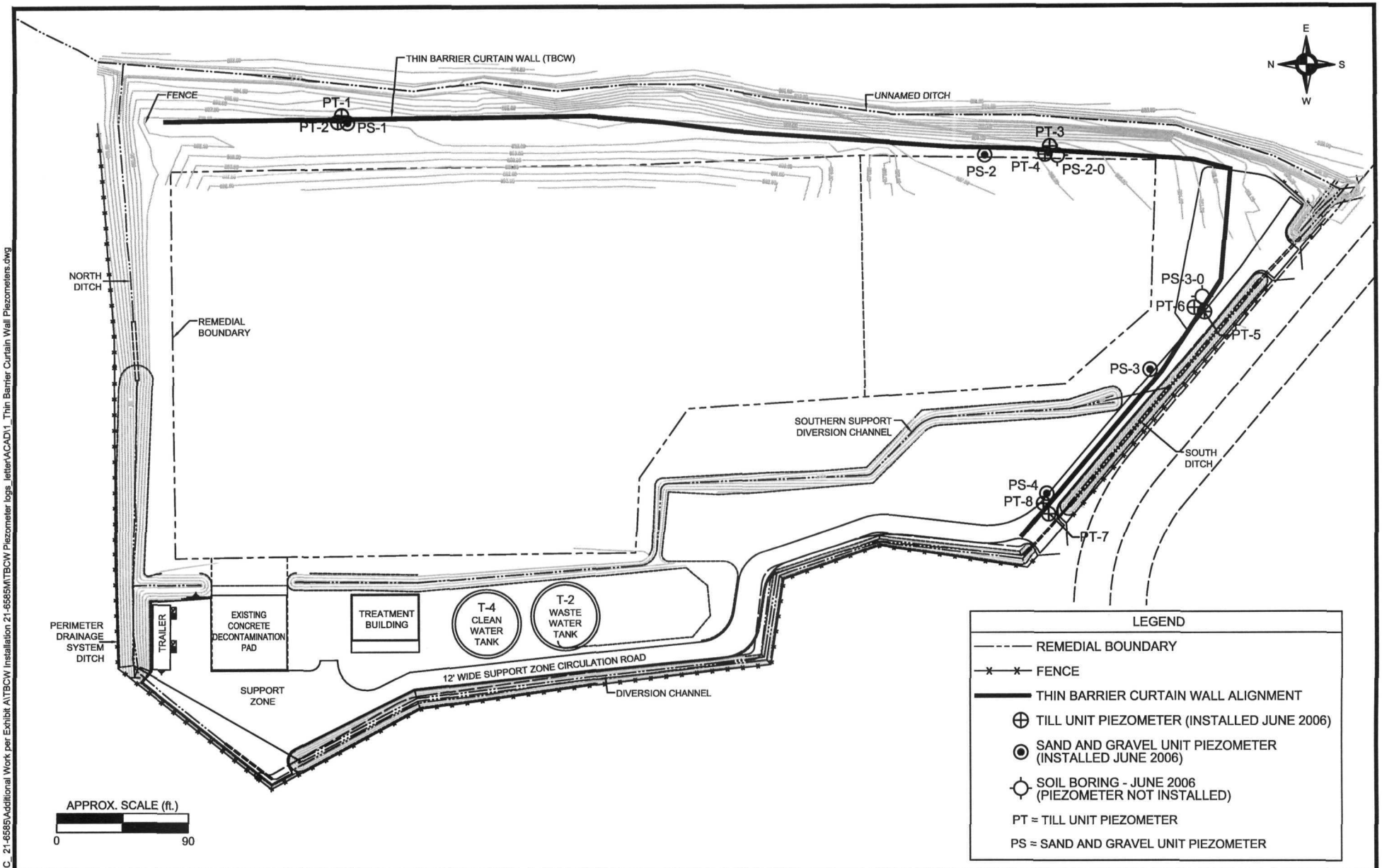
ENVIRON International Corporation

Angela E. DeDolph

Angela E. DeDolph
Manager

cc: Thomas Krueger, Esq. – USEPA
Mr. Bruce Hamilton – IDEM
Mr. Timothy Harrison – CH2M HILL
Mr. Philip Smith – CH2M HILL
Ms. Catherine Schripsema – CH2M HILL
Mr. Norman Bernstein – Trustee
Mr. John Imse – ENVIRON International Corporation

FIGURE



R:\Client Project Files\ECC_ 21-6585\Additional Work per Exhibit A\TBCW Installation 21-6585M\TBCW Piezometer logs_letter\ACAD\1_Thin Barrier Curtain Wall Piezometers.dwg

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THIN BARRIER CURTAIN WALL PIEZOMETERS

ENVIRO-CHEM SITE
ZIONSVILLE, INDIANA

Figure 1

Drafter:	APR	Date:	10/19/06	Contract Number:	21-6585M	Approved:	Revised:

ATTACHMENT 1

Boring and Piezometer Construction Logs

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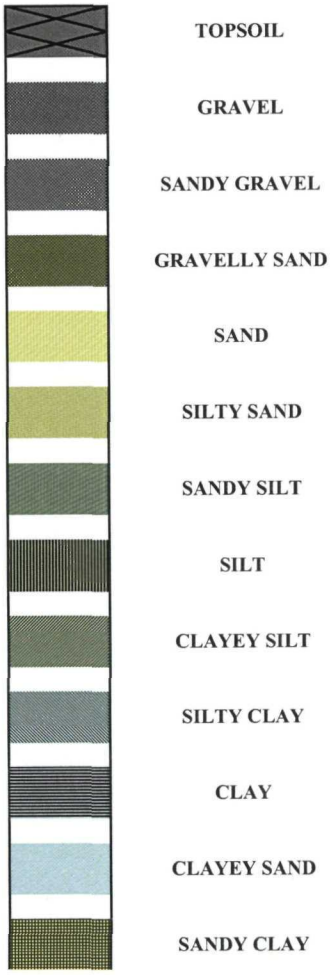
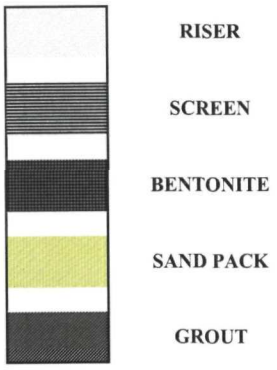
SOIL BORING LOG KEY



WELL CONSTRUCTION LOG KEY



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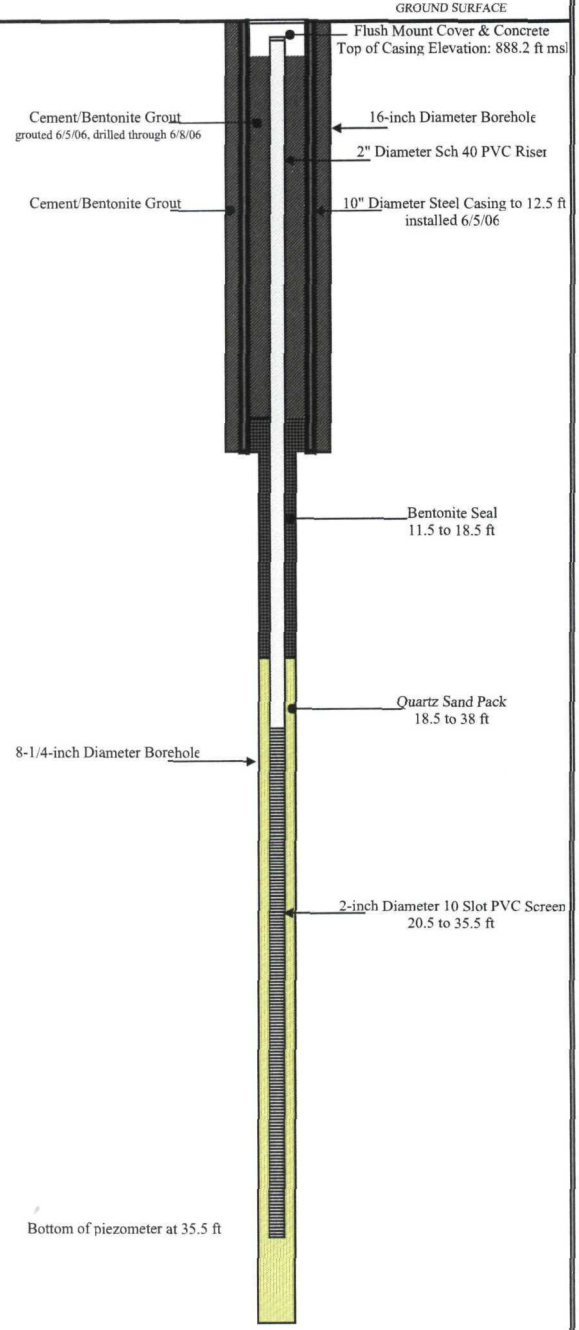
WELL LOG

PROJECT NAME:	ECC TBCW Piezometers	WELL NUMBER:	PS-1
PROJECT NUMBER:	21-6585M	DRILLING DATE:	6/5/06 and 6/8/06
PROJECT LOCATION:	Enviro-Chem Site, Zionsville, IN	FIELD PERSON:	Doug Burge, P.G.
DRILLING CONTRACTOR:	Earth Exploration, Inc	TOTAL WELL DEPTH:	35.5 feet
RIG TYPE:	D-120 ATV	WELL DIAMETER / MATERIAL:	2-inch diameter Schedule 40 PVC

LITHOLOGY DESCRIPTION	DESCRIPTION INTERVAL (ft)	PID (ppm)	Blow Counts (per 6")	Recovery	GRAPHIC LITHOLOGY	DEPTH (ft bgs)
Gravel fill	0-4.5					1--
						2--
		0	6/9/9/9	0		3--
						4--
Clayey silt, brownish gray, trace root hairs, stiff, slightly cohesive, moist.	4.5-6	0	6/6/6/9	0.8		5--
						6--
Silty clay, brownish gray, trace fine sand, cohesive, plastic, stiff, moist.	6-10.5	0	9/7/5/5	1.7		7--
						8--
		0	1/2/7/10	0		9--
						10--
Silty clay till, olive gray to medium dark gray (N4), some small to medium pebbles, little fine sand, very stiff, moist.	10.5-18.4	0	3/7/9/10	2		11--
						12--
		0	5/4/4/7	1.6		13--
						14--
		0	3/3/3/4	0		15--
						16--
		0	47/19/14/14	1.5		17--
						18--
Sand and gravel and very coarse to coarse sand, little medium sand to fine sand, subrounded poorly sorted, medium dark gray, wet.	18.4-37.5	0	3/11/17/19	1.7		19--
						20--
		0	3/99/21/29	0.8		21--
						22--
		0	17/19/20/21	2		23--
						24--
		0	25/14/12/10	2		25--
						26--
		0	22/21/9/6	1.3		27--
						28--
		0	21/15/11/7	1.5		29--
						30--
		0	22/22/12/10	1.7		31--
						32--
		0	33/15/10/11	1.7		33--
						34--
		0	6/9/6/6	1.4		35--
						36--
		0	31/18/13/14	2		37--
Silt, olive gray to medium gray, noncohesive to very slightly cohesive, nonplastic, stiff, wet.	37.5-40					38--
		0	12/8/7/21	2		39--
						40--

WELL CONSTRUCTION DETAIL



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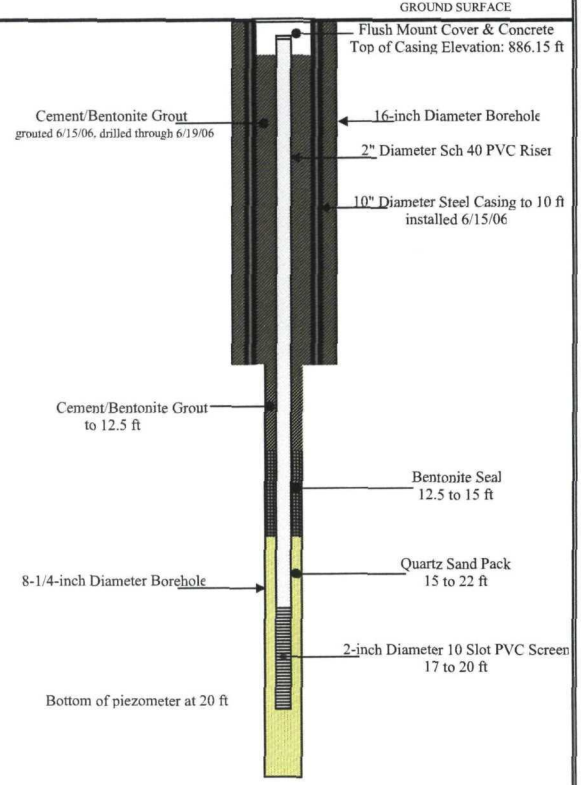
WELL LOG

PROJECT NAME:	**ECC TBCW Piezometers**	**WELL NUMBER:**	**PS-2**
PROJECT NUMBER:	21-6585M	**DRILLING DATE:**	6/14/06, 6/15/06 and 6/19/06
PROJECT LOCATION:	Enviro-Chem Site, Zionsville, IN	**FIELD PERSON:**	Doug Burge, P.G.
DRILLING CONTRACTOR:	Earth Exploration, Inc	**TOTAL WELL DEPTH:**	20 feet
RIG TYPE:	D-120 ATV	**WELL DIAMETER / MATERIAL:**	2-inch diameter Schedule 40 PVC

LITHOLOGY DESCRIPTION	DESCRIPTION INTERVAL (ft)	PID (ppm)	Blow Counts (per 6")	Recovery	GRAPHIC LITHOLOGY	DEPTH (ft bgs)
Gravel fill at surface	0-4					1--
Gravel and silty clay fill, yellowish brown		0	10/7/5/3	0.8		2-- 3-- 4--
Silty clay trace pebbles, roots, sand, plastic, very moist.	4-6.4	0	3/2/2/2	1.1		5 -- 6--
Silty clay, little fine sand, pebbles, wood, olive gray to medium gray with mottling, moist.	6.4-8.9	0	2/3/3/4	1.7		7-- 8--
Clayey silt, medium gray, stiff, moist.	8.9-10.3	0	3/3/3/3	2		9-- 10--
Silty clay, medium dark gray, stiff, with seam of very coarse sand at 10.5 to 11 feet and seam of sandy clay at 13 feet.	10.3-14	0	0/0/2/6	1		11-- 12--
		0	9/7/22/16	1.1		13-- 14--
Medium to coarse sand, trace fine sand, medium gray, wet.	14-17.1	0	6/9/14/12	0.8		15-- 16--
Small gravel with coarse sand, medium gray, changing to broken rock with sand; with seam of silty clay at 18.2 feet.	17.1-21.2	0	11/12/15/14	1.5		17-- 18--
		0	19/9/39/40	1.4		19-- 20--
		0	25/19/32/30	1.6		21-- 22--
Silty clay, sand and gravel, medium to olive gray, moist.	21.2-24	0	16/16/15/18	0.6		23-- 24--

WELL CONSTRUCTION DETAIL



Note: PS-2 piezometer installed approximately 40 feet north of PS-2-O (original location).

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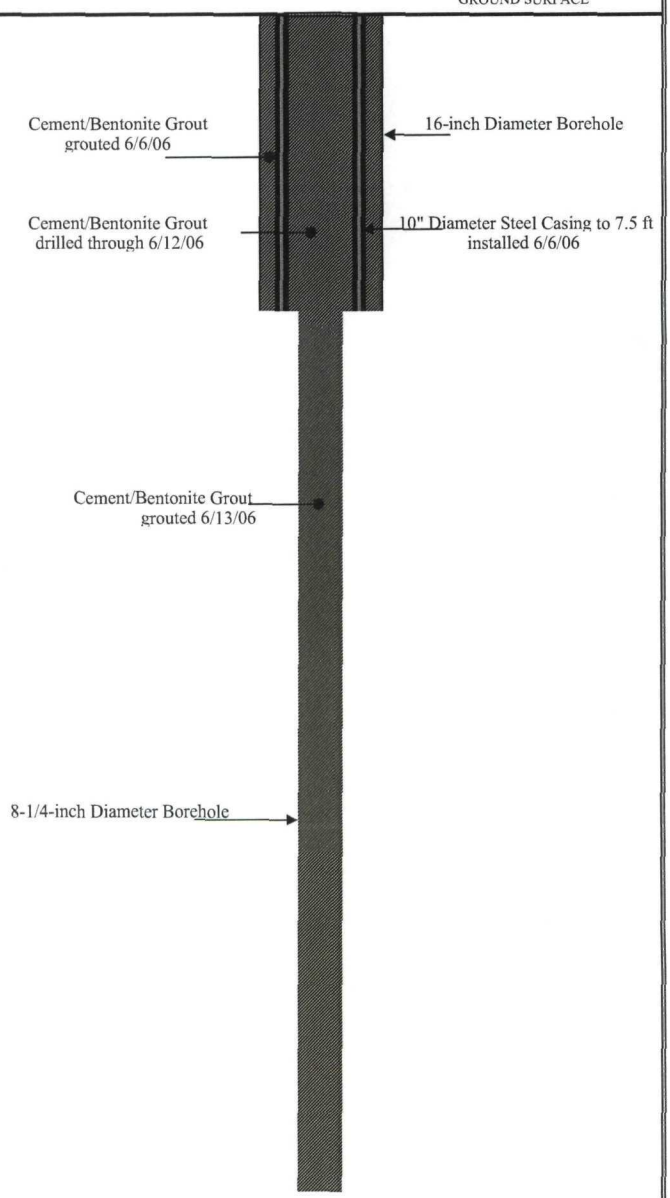
BORING LOG

PROJECT NAME:	**ECC TBCW Piezometers**	**BORING NUMBER:**	**PS-2-O** (Original Boring Location)
PROJECT NUMBER:	21-6585M	**DRILLING DATE:**	6/6/06, 6/12/06 and 6/13/06
PROJECT LOCATION:	Enviro-Chem Site, Zionsville, IN	**FIELD PERSON:**	Doug Burge, P.G.
DRILLING CONTRACTOR:	Earth Exploration, Inc	**TOTAL BORING DEPTH:**	30 feet
RIG TYPE:	D-120 ATV	**WELL DIAMETER / MATERIAL:**	*well not installed*

LITHOLOGY DESCRIPTION	DESCRIPTION INTERVAL (ft)	PID (ppm)	Blow Counts (per 6")	Recovery	GRAPHIC LITHOLOGY	DEPTH (ft bgs)
Gravel fill.	0-2.3					1-- 2--
Silty clay, little fine sand, dark yellowish brown, cohesive, plastic, very moist.	2.3-8	0	3/2/3/3	1		3-- 4--
		0	2/2/3/4	1.4		5 -- 6--
		0	2/3/3/3	1.1		7-- 8--
Silty clay till, little fine sand, pebbles, medium gray, plastic, stiff, moist.	8-14.5	0	1/2/2/4	1.2		9-- 10--
		0	3/3/3/3	1.3		11-- 12--
		0	3/3/4/8	1.2		13-- 14--
Sandy silty clay till, medium gray, slightly cohesive, with seam of fine sand at 17.5 feet, moist.	14.5-19.5	0	4/4/8/6	1.3		15-- 16--
		0	7/11/12/11	1.8		17-- 18--
		0	5/7/9/10	1.5		19-- 20--
Silty clay till, little sand, pebbles, medium gray, stiff, moist with seam of medium-coarse sand at 23.5 feet.	19.5-30	0	5/10/10/15	1.8		21-- 22--
		0	5/11/11/12	1.7		23-- 24--
		0	7/19/29/32	0.2		25-- 26--
		0	10/14/20/25	1.9		27-- 28--
		0	9/13/33/53	1.3		29-- 30--

WELL CONSTRUCTION DETAIL
(well not installed)



Piezometer not installed; see PS-2

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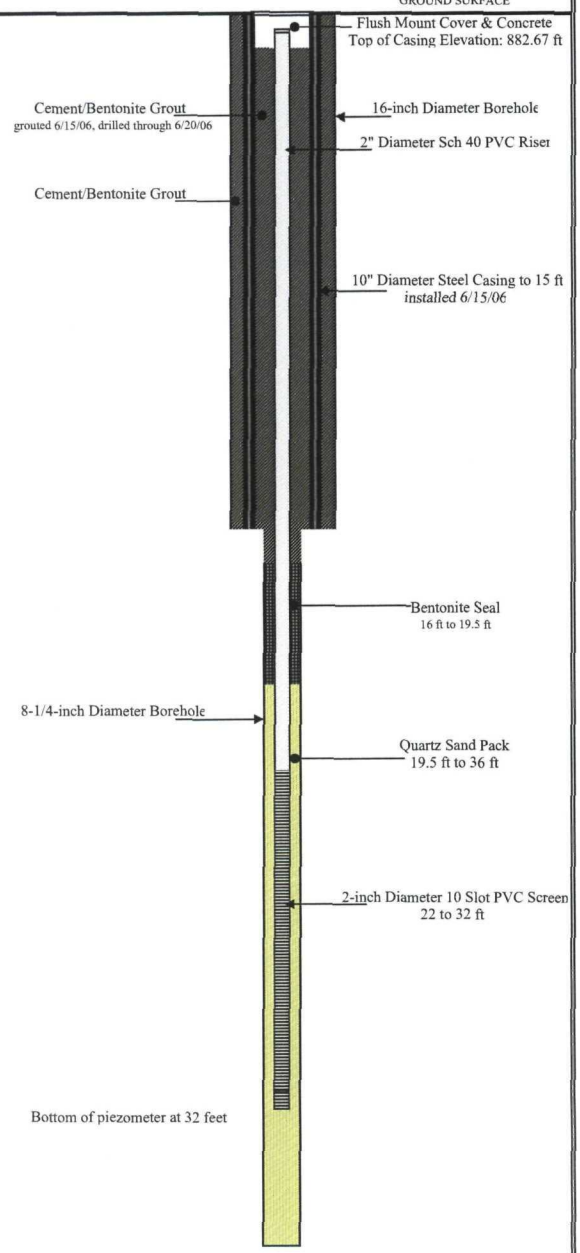
WELL LOG

PROJECT NAME:	**ECC TBCW Piezometers**	**WELL NUMBER:**	**PS-3**
PROJECT NUMBER:	*21-6585M*	***DRILLING DATE:***	*6/15/06 and 6/20/06*
PROJECT LOCATION:	Enviro-Chem Site, Zionsville, IN	**FIELD PERSON:**	Doug Burge, P.G.
DRILLING CONTRACTOR:	Earth Exploration, Inc	**TOTAL WELL DEPTH:**	32 feet
RIG TYPE:	D-120 ATV	**WELL DIAMETER / MATERIAL:**	2-inch diameter Schedule 40 PVC

LITHOLOGY DESCRIPTION	DESCRIPTION INTERVAL (ft)	PID (ppm)	Blow Counts (per 6")	Recovery	GRAPHIC LITHOLOGY	DEPTH (ft bgs)
Gravel fill						1--
	2-8					2--
Silty clay, trace pebbles, roots, brownish gray to medium gray, stiff, moist; with sand seam at 7.8 feet.		0	5/3/5/5	0.6		3--
						4--
		0	4/4/4/4	2		5 --
						6--
		0	4/3/3/4	2		7--
						8--
Silty clay, some fine sand, olive to med gray, soft.	8-10	0	2/2/2/2	1.8		9--
						10--
	10-17	0	2/2/4/4	0.9		11--
Silty clay till, trace to some sand, medium gray, cohesive, wet; with sand seams at 10.7- and 12.6-foot depths.						12--
		0	9/7/9/5	1.4		13--
						14--
		0	5/6/6/8	1.5		15--
						16--
		0	2/2/3/2	1.3		17--
	17-19.5					18--
Very coarse sand, with silty clay, medium gray, loose, wet.		0	2/2/3/4	1.8		19--
	19.5-32.5					20--
Medium to coarse sand and small gravel, medium gray, loose, wet.		0	8/8/9/10	1.3		21--
						22--
(Sand heave and thin seam of silty clay noted around 20 feet).		0	10/12/15/16	1.8		23--
						24--
		0	15/15/13/10	1.4		25--
						26--
		0	16/13/11/12	1.5		27--
						28--
		0	9/9/8/10	1.3		29--
						30--
		0	8/8/6/7	1.5		31--
						32--
Fine sand, medium gray, loose, wet.	32.5-35	0	22/12/13/20	1.5		33--
						34--
	35-38	0	8/8/7/9	1.2		35--
Silt, little to some clay, trace pebbles, medium gray, plastic, wet.						36--
		0	5/6/7/9	1.4		37--
						38--

WELL CONSTRUCTION DETAIL



Note: PS-3 piezometer installed approximately 60 feet northwest of boring PS-3-O (original location).

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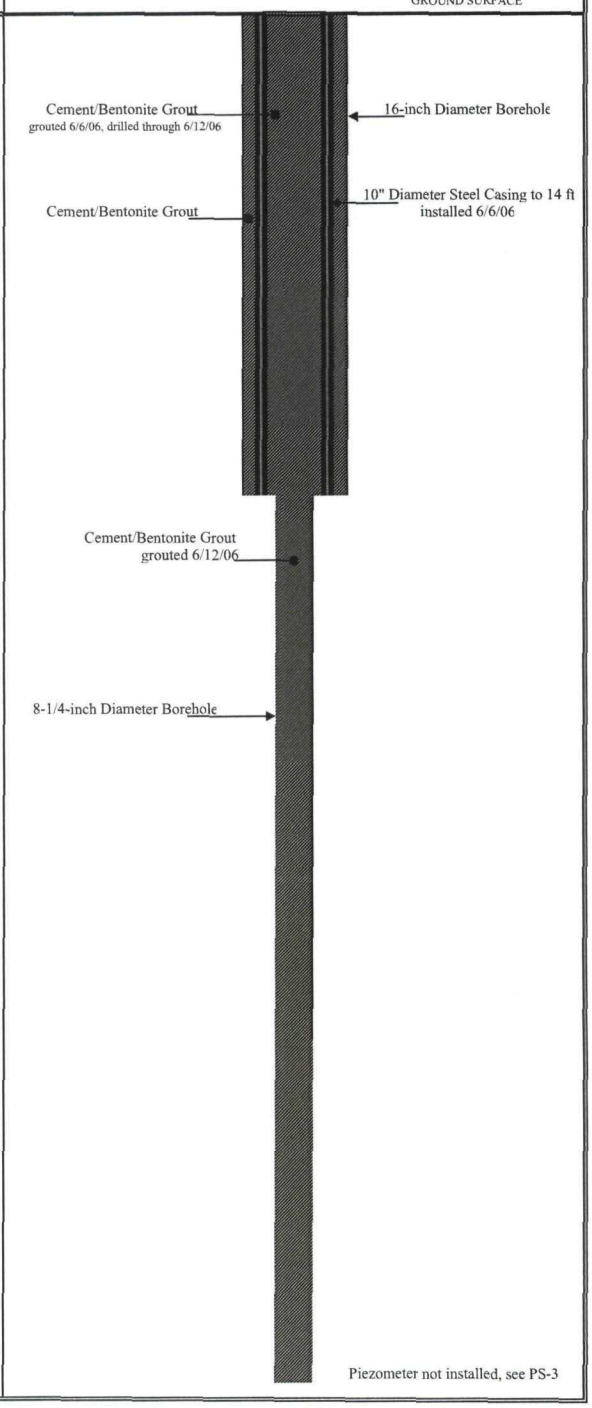
BORING LOG

PROJECT NAME:	**ECC TBCW Piezometers**	**BORING NUMBER:**	**PS-3-O (Original Boring Location)**
PROJECT NUMBER:	21-6585M	**DRILLING DATE:**	6/6/06 and 6/12/06
PROJECT LOCATION:	Enviro-Chem Site, Zionsville, IN	**FIELD PERSON:**	Doug Burge, P.G.
DRILLING CONTRACTOR:	Earth Exploration, Inc	**TOTAL BORING DEPTH:**	40 feet
RIG TYPE:	D-120 ATV	**WELL DIAMETER / MATERIAL:**	*well not installed*

LITHOLOGY DESCRIPTION	DESCRIPTION INTERVAL (ft)	PID (ppm)	Blow Counts (per 6")	Recovery	GRAPHIC LITHOLOGY	DEPTH (ft bgs)
Gravel fill	0-2.6					1-- 2--
Silty clay, little fine sand, trace roots, medium dark gray, stiff, moist.	2.6-6.8	0	11/3/4/4	0.8		3-- 4--
		0	3/3/3/3	0.6		5 -- 6--
Silty clay, trace sand, brownish gray, moist.	6.8-8.7	0	4/2/2/5	1.4		7-- 8--
Fine sand , some silty clay, trace pebbles, olive gray, wet.	8.7-10	0	2/1/1/2	1.1		9-- 10--
Silty clay, trace sand, brownish gray, with seam of sand at 10.7 feet.	10-12.4	0	2/2/4/4	1.4		11-- 12--
Silty clay till, little fine sand, pebbles, olive gray to medium dark gray, moist, stiff to *very stiff, with seams with sand and gravel* at 32.5 feet.	12.4-40	0	2/3/5/5	1.4		13-- 14--
		0	6/5/10/9	1		15-- 16--
		0	3/3/3/4	0.9		17-- 18--
		0	2/2/3/4	1.2		19-- 20--
		0	3/3/5/6	0.9		21-- 22--
		0	2/3/4/5	1.4		23-- 24--
		0	3/3/6/9	1.1		25-- 26--
		0	3/5/6/9	1.3		27-- 28--
		0	2/2/4/8	1.3		29-- 30--
		0	2/4/8/10	1.4		31-- 32--
		0	6/37/50/50	1.3		33-- 34--
		0	12/32/44/54	1.7		35-- 36--
		0	5/18/59/88	1.3		37-- 38--
		0	22/52/242	1.6		39-- 40--

WELL CONSTRUCTION DETAIL
(well not installed)



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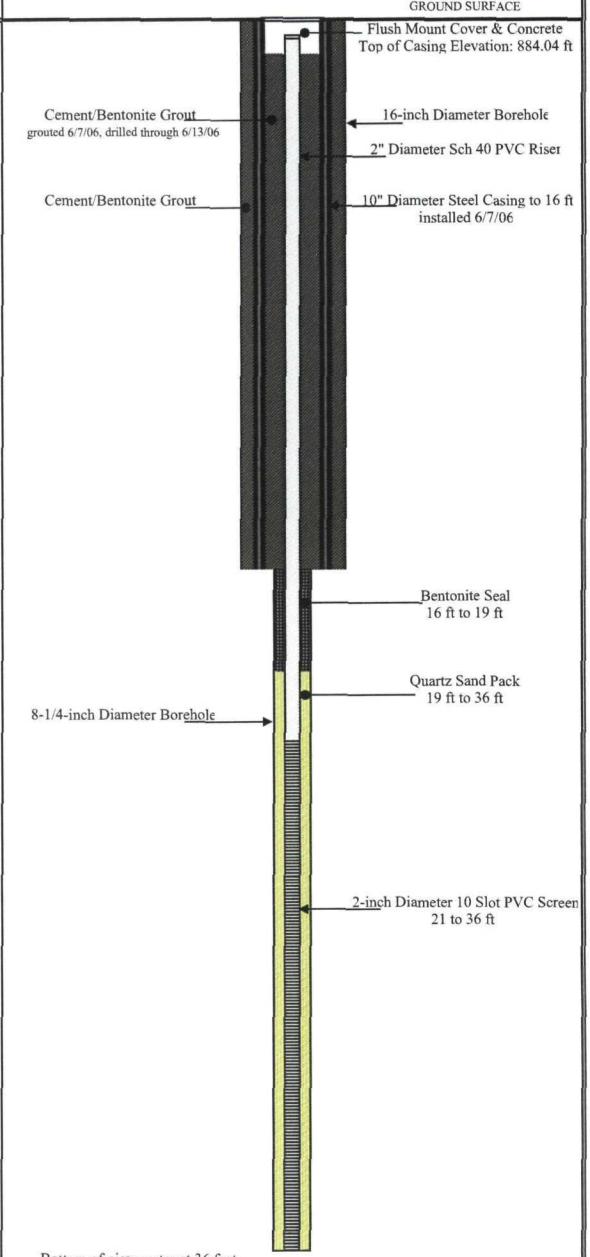
WELL LOG

PROJECT NAME:	**ECC TBCW Piezometers**	**WELL NUMBER:**	**PS-4**
PROJECT NUMBER:	*21-6585M*	***DRILLING DATE:***	*6/7/06 and 6/13/06*
PROJECT LOCATION:	Enviro-Chem Site, Zionsville, IN	**FIELD PERSON:**	Doug Burge, P.G.
DRILLING CONTRACTOR:	Earth Exploration, Inc	**TOTAL WELL DEPTH:**	36 feet
RIG TYPE:	D-120 ATV	**WELL DIAMETER / MATERIAL:**	2-inch diameter Schedule 40 PVC

LITHOLOGY DESCRIPTION	DESCRIPTION INTERVAL (ft)	PID (ppm)	Blow Counts (per 6")	Recovery	GRAPHIC LITHOLOGY	DEPTH (ft bgs)
Gravel fill changing to gravel and silty clay fill, loose.	0-3.5					1-- 2--
		0	12/26/18/18	1.7		3-- 4--
Silty clay, trace fine sand, wood, roots, medium dark gray to brownish gray, cohesive, stiff, moist.	3.5-6	0	4/3/3/4	1.3		5 -- 6--
Fine to medium sand with silty clay, trace coarse sand, brownish gray to yellowish brown, loose, wet.	6-9.1	0	5/4/4/4	0		7-- 8--
		0	2/3/6/7	1.6		9-- 10--
Silty clay till, some to little fine sand, yellowish brown to brownish gray, stiff, moist, with seam of sand at 10.7 feet.	9.1-13	0	2/3/6/7	1.5		11-- 12--
		0	3/6/5/8	1.4		13-- 14--
Silty clay till, little fine sand, medium to medium dark gray, very stiff, plastic, moist; with sand seam at 14.8 feet.	13-18	0	2/5/6/0	1.5		15-- 16--
		0	<1/3/4/5	1.4		17-- 18--
Silty clay till, some sand and small gravel, medium gray to olive gray, very plastic, moist.	18-21	0	2/4/8/10	2		19-- 20--
Sand and gravel, with layer of coarse sand.	21-22.7	0	5/52/44/35	1.3		21-- 22--
Silty clay till with coarse sand and small gravel, med gray, plastic, wet.	22.7-24	0	7/29/19/20	1.5		23-- 24--
Fine to medium sand with layers of very coarse sand and gravel, loose, wet.	24-28	0	7/19/17/17	1.8		25-- 26--
		0	14/17/17/18	1.6		27-- 28--
Silty clay with coarse sand, plastic.	28-30.2	0	17/13/16/26	1.7		29-- 30--
Fine-medium sand to Fine sand, medium gray, loose , wet.	30.2-37.2	0	16/16/19/21	1.8		31-- 32--
		0	15/16/19/21	1.4		33-- 34--
		0	9/16/23/25	1.4		35-- 36--
		0	13/11/10/16	1.6		37-- 38--
Clayey silt, medium gray, plastic, wet.	37.2-40	0	8/8/12/16	1.8		39-- 40--

WELL CONSTRUCTION DETAIL



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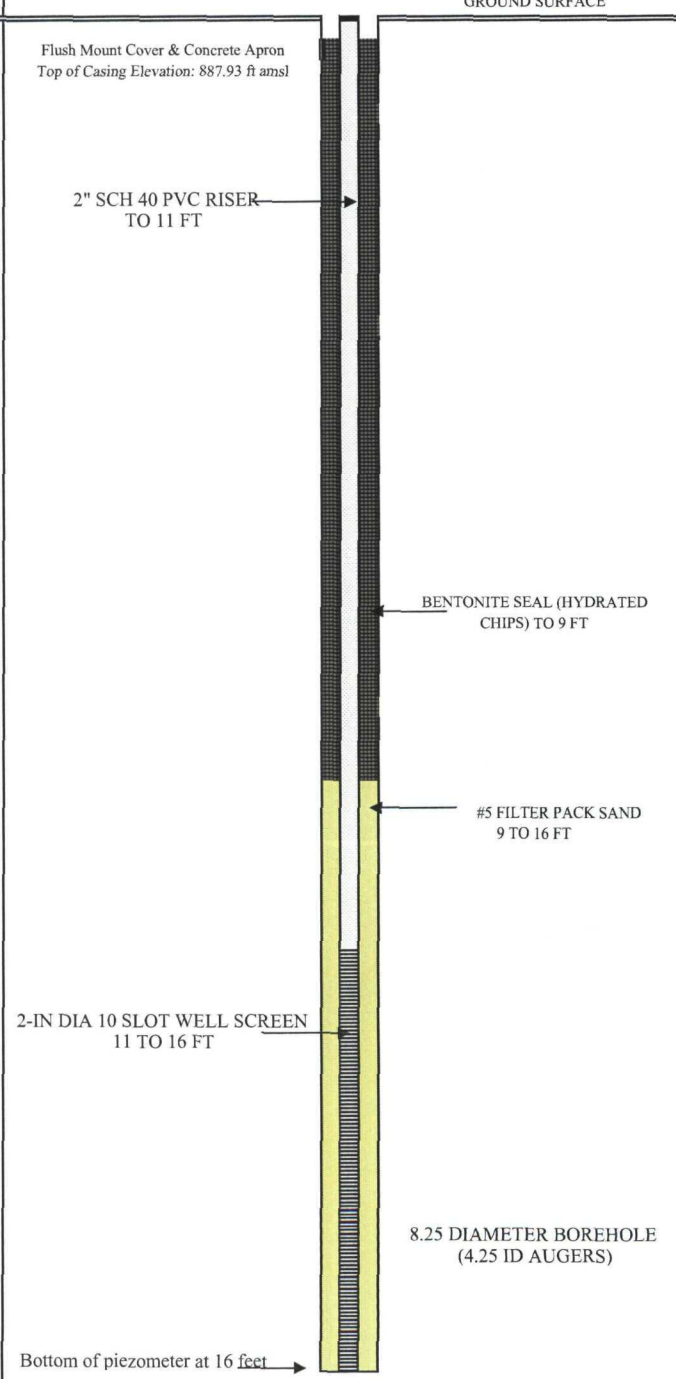
WELL LOG

PROJECT NAME:	ECC TBCW Piezometers	WELL NUMBER:	PT-1
PROJECT NUMBER:	21-6585M	DRILLING DATE:	6/9/06
PROJECT LOCATION:	Enviro-Chem Site, Zionsville, IN	FIELD PERSON:	Doug Burge, P.G.
DRILLING CONTRACTOR:	Earth Exploration, Inc.	TOTAL DEPTH:	16 feet
RIG TYPE:	D-120 ATV	WELL DIAMETER / MATERIAL:	2-inch diameter Schedule 40 PVC

LITHOLOGY DESCRIPTION	DESCRIPTION INTERVAL (ft)	PID (ppm)	Blow Counts (per 6")	GRAPHIC LITHOLOGY	DEPTH (ft bgs)
PT-1 drilled without sampling. Soil descriptions from adjacent boring PS-1 included.			*See PS-1 log*		0.5
Gravel fill.	*0-4.5*	*0*			1--- 1.5 2--- 2.5 3--- 3.5 4---
Clayey silt, brownish gray, trace root hairs, stiff, slightly cohesive, moist.	*4.5-6*	*0*			4.5 5--- 5.5 6---
Silty clay, brownish gray, trace fine sand, cohesive, plastic, stiff, moist.	*6-10.5*	*0*			6.5 7--- 7.5 8--- 8.5 9--- 9.5 10--- 10.5
Silty clay till, olive gray to medium dark gray (N4), some small to medium pebbles, little fine sand, very stiff, moist.	*10.5-16*	*0*			11--- 11.5 12--- 12.5 13--- 13.5 14--- 14.5 15--- 15.5 16---

WELL CONSTRUCTION DETAIL



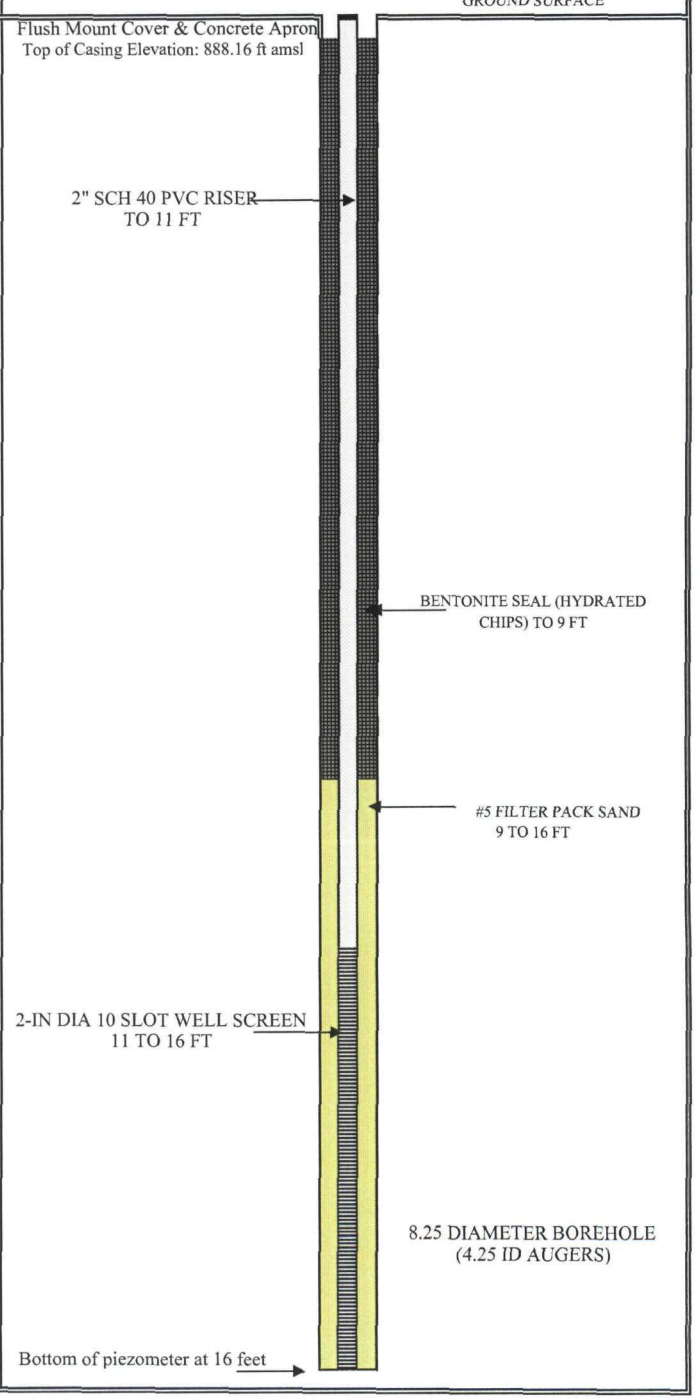
ENVIRON

WELL LOG

PROJECT NAME:	ECC TBCW Piezometers	WELL NUMBER:	PT-2
PROJECT NUMBER:	21-6585M	DRILLING DATE:	6/9/06
PROJECT LOCATION:	Enviro-Chem Site, Zionsville, IN	FIELD PERSON:	Doug Burge, P.G.
DRILLING CONTRACTOR:	Earth Exploration, Inc.	TOTAL DEPTH:	16 feet
RIG TYPE:	D-120 ATV	WELL DIAMETER / MATERIAL:	2-inch diameter Schedule 40 PVC

LITHOLOGY DESCRIPTION	DESCRIPTION INTERVAL (ft)	PID (ppm)	Blow Counts (per 6")	GRAPHIC LITHOLOGY	DEPTH (ft bgs)
PT-2 drilled without sampling. Soil descriptions from adjacent boring PS-1 included.			*See PS-1 log*		0.5
Gravel fill.	*0-4.5*	0			1---, 1.5, 2---, 2.5, 3---, 3.5, 4---, 4.5
Clayey silt, brownish gray, trace root hairs, stiff, slightly cohesive, moist.	*4.5-6*	0			5---, 5.5, 6---, 6.5
Silty clay, brownish gray, trace fine sand, cohesive, plastic, stiff, moist.	*6-10.5*	0			7---, 7.5, 8---, 8.5, 9---, 9.5, 10---, 10.5
Silty clay till, olive gray to medium dark gray (N4), some small to medium pebbles, little fine sand, very stiff, moist.	*10.5-16*	0			11---, 11.5, 12---, 12.5, 13---, 13.5, 14---, 14.5, 15---, 15.5, 16---

WELL CONSTRUCTION DETAIL



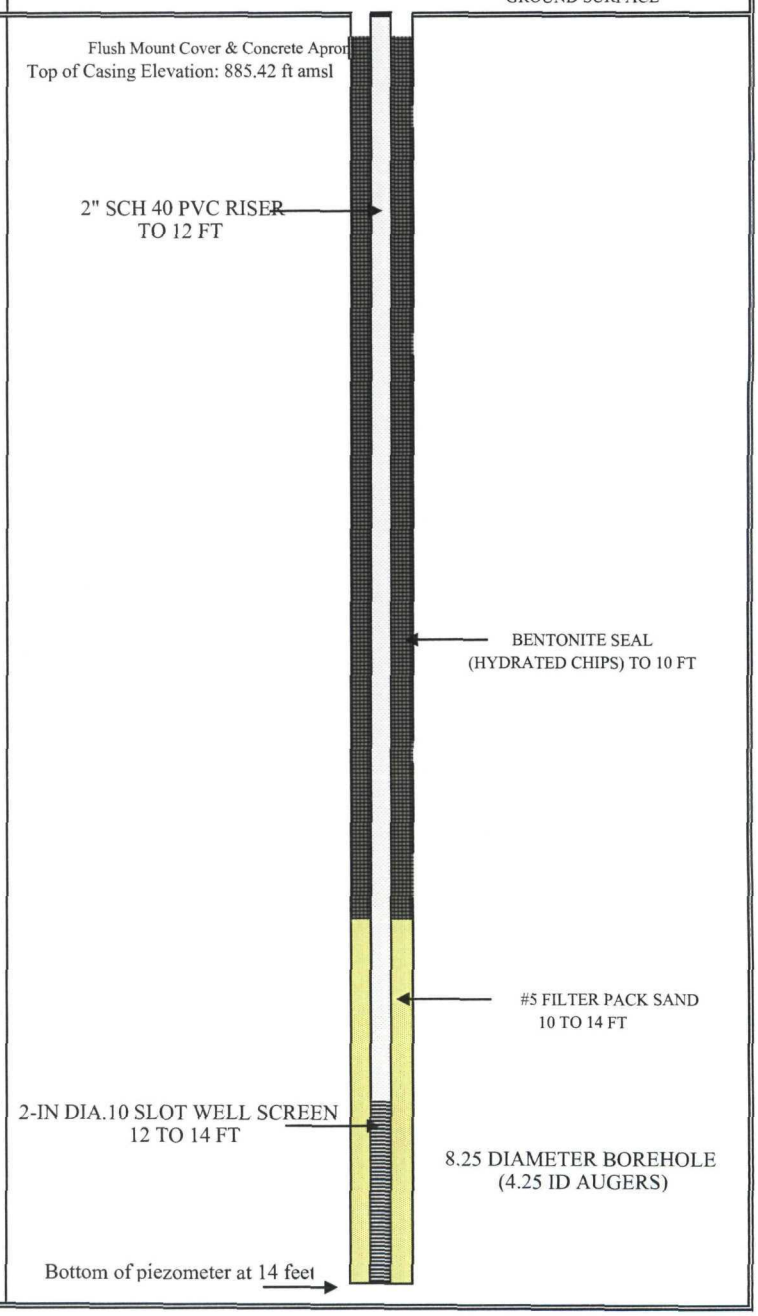
ENVIRON

WELL LOG

PROJECT NAME:	**ECC TBCW Piezometers**	**WELL NUMBER:**	**PT-3**
PROJECT NUMBER:	21-6585M	**DRILLING DATE:**	6/20/06
PROJECT LOCATION:	Enviro-Chem Site, Zionsville, IN	**FIELD PERSON:**	Doug Burge, P.G.
DRILLING CONTRACTOR:	Earth Exploration, Inc.	**TOTAL DEPTH:**	14 feet
RIG TYPE:	CME75	**WELL DIAMETER / MATERIAL:**	2-inch diameter Schedule 40 PVC

LITHOLOGY DESCRIPTION	DESCRIPTION INTERVAL (ft)	PID (ppm)	Blow Counts (per 6")	GRAPHIC LITHOLOGY	DEPTH (ft bgs)
PT-3 drilled without sampling. Soil descriptions from adjacent boring PS-2-O provided below.			*See PS-2-O log*		0.5
Gravel fill.	*0-2.3*				1---, 1.5, 2---
Silty clay, little fine sand, dark yellowish brown, cohesive, plastic, very moist.	*2.3-8*	0			2.5, 3---, 3.5, 4---, 4.5, 5---, 5.5, 6---, 6.5, 7---, 7.5
Silty clay till, little fine sand, pebbles, medium gray, plastic, stiff, moist.	*8-14*	0			8---, 8.5, 9---, 9.5, 10---, 10.5, 11---, 11.5, 12---, 12.5, 13---, 13.5, 14---

WELL CONSTRUCTION DETAIL

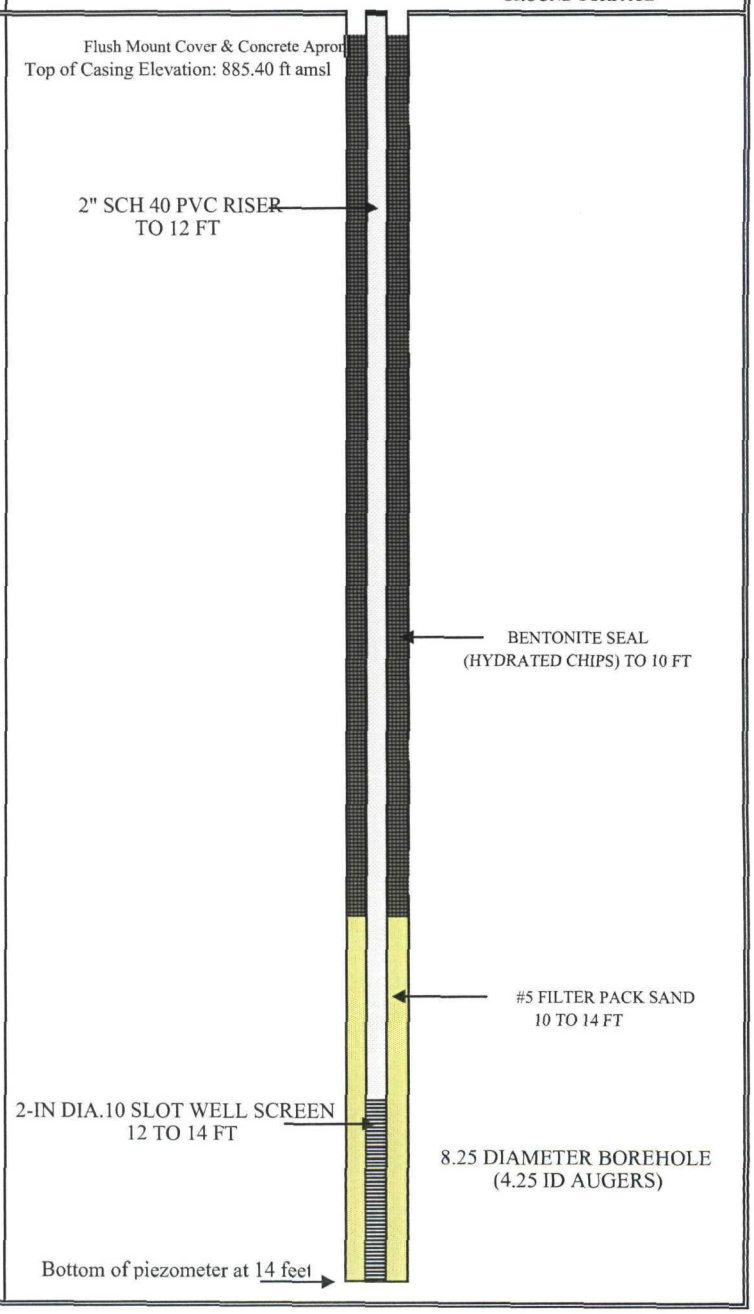


ENVIRON

WELL LOG

PROJECT NAME:	**ECC TBCW Piezometers**	**WELL NUMBER:**	**PT-4**
PROJECT NUMBER:	21-6585M	**DRILLING DATE:**	6/21/06
PROJECT LOCATION:	Enviro-Chem Site, Zionsville, IN	**FIELD PERSON:**	Doug Burge, P.G.
DRILLING CONTRACTOR:	Earth Exploration, Inc.	**TOTAL DEPTH:**	14 feet
RIG TYPE:	CME75	**WELL DIAMETER / MATERIAL:**	2-inch diameter Schedule 40 PVC

LITHOLOGY DESCRIPTION	DESCRIPTION INTERVAL (ft)	PID (ppm)	Blow Counts (per 6")	GRAPHIC LITHOLOGY	DEPTH (ft bgs)
PT-4 drilled without sampling. Soil descriptions from adjacent boring PS-2-O provided below.			*See PS-2-O log*		0.5
Gravel fill.	*0-2.3*				1--- 1.5 2---
Silty clay, little fine sand, dark yellowish brown, cohesive, plastic, very moist.	*2.3-8*	0			2.5 3--- 3.5 4--- 4.5 5--- 5.5 6--- 6.5 7--- 7.5
Silty clay till, little fine sand, pebbles, medium gray, plastic, stiff, moist.	*8-14*	0			8--- 8.5 9--- 9.5 10--- 10.5 11--- 11.5 12--- 12.5 13--- 13.5 14---



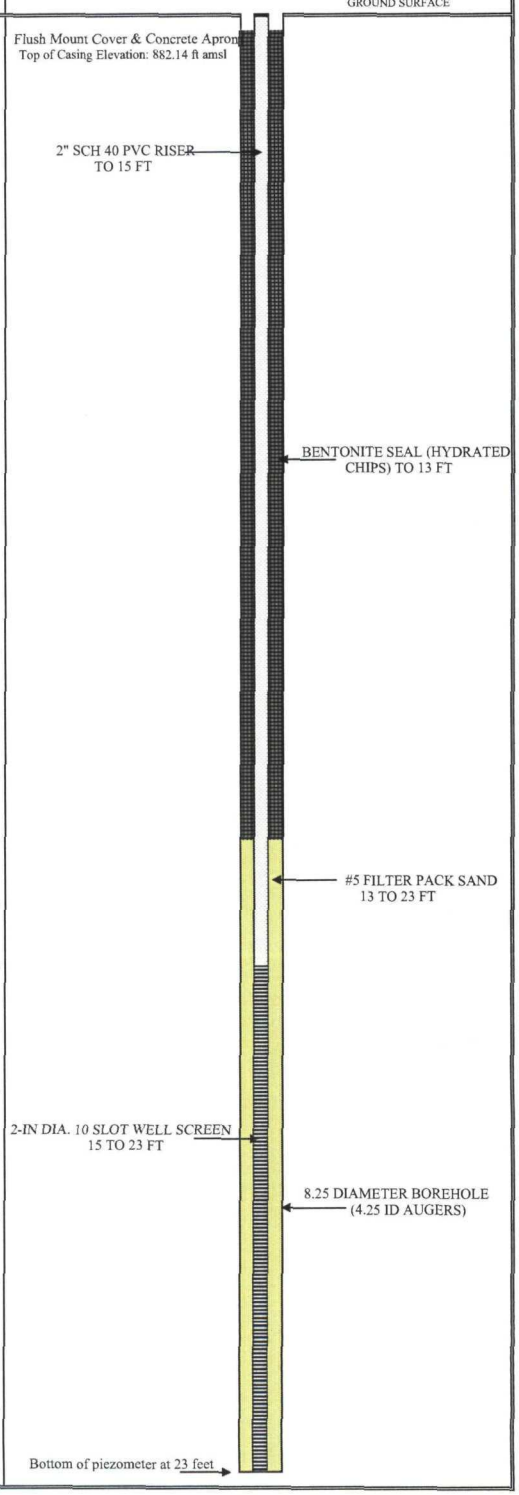
ENVIRON

WELL LOG

PROJECT NAME:	**ECC TBCW Piezometers**	**WELL NUMBER:**	**PT-5**
PROJECT NUMBER:	21-6585M	**DRILLING DATE:**	6/21/06
PROJECT LOCATION:	Enviro-Chem Site, Zionsville, IN	**FIELD PERSON:**	Doug Burge, P.G.
DRILLING CONTRACTOR:	Earth Exploration, Inc.	**TOTAL DEPTH:**	23 feet
RIG TYPE:	CME75	**WELL DIAMETER / MATERIAL:**	2-inch diameter Schedule 40 PVC

LITHOLOGY DESCRIPTION	DESCRIPTION INTERVAL (ft)	PID (ppm)	Blow Counts (per 6")	GRAPHIC LITHOLOGY	DEPTH (ft bgs)
PT-5 drilled without sampling. Soil description from adjacent boring PS-3-O provided below.			*See PS-3-O log*		0.5
Gravel fill.	*0-2.6*	*0*			1---, 1.5, 2---, 2.5
Silty clay, little fine sand, trace roots, medium dark gray, stiff, moist.	*2.6-6.8*	*0*			3---, 3.5, 4---, 4.5, 5---, 5.5, 6---, 6.5, 7---
Silty clay, trace sand, brownish gray, moist.	*6.8-8.7*	*0*			7.5, 8---, 8.5
Fine sand, some silty clay, trace pebbles, olive gray, wet.	*8.7-10*	*0*			9---, 9.5, 10---
Silty clay, trace sand, brownish gray, with seam of sand at 10.7 feet.	*10-12.4*	*0*			10.5, 11---, 11.5, 12---, 12.5
Silty clay till, little fine sand, pebbles, olive gray to medium dark gray, stiff to very stiff, moist.	*12.4-23*	*0*			13---, 13.5, 14---, 14.5, 15---, 15.5, 16---, 16.5, 17---, 17.5, 18---, 18.5, 19---, 19.5, 20---, 20.5, 21---, 21.5, 22---, 22.5, 23---

WELL CONSTRUCTION DETAIL



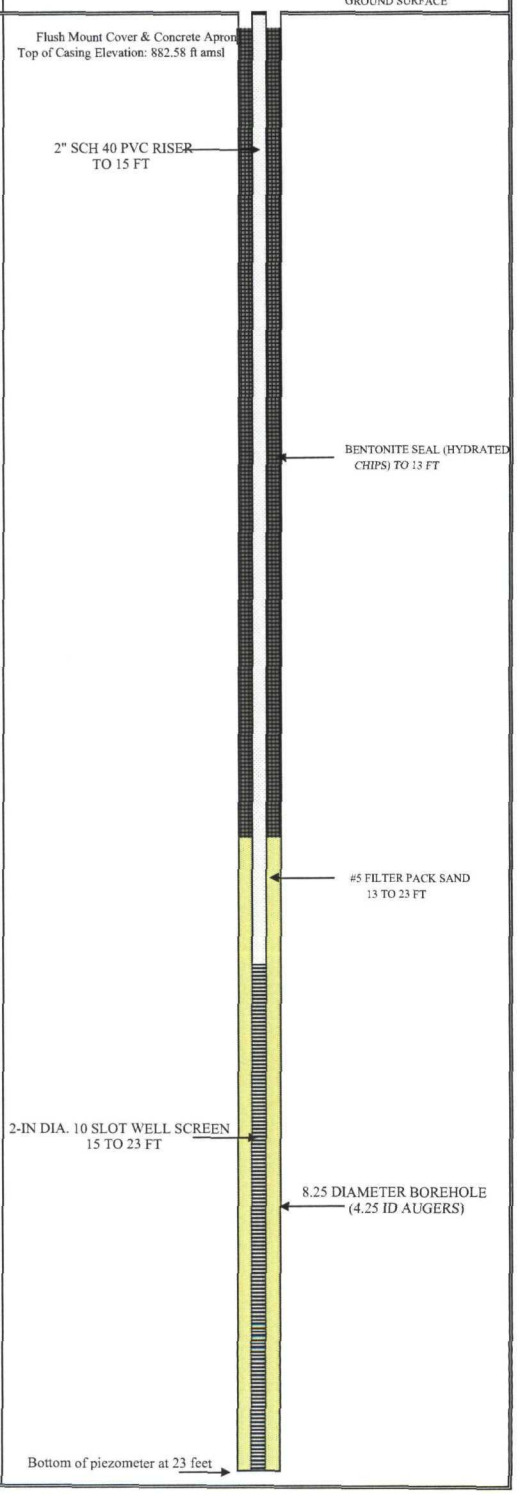
ENVIRON

WELL LOG

PROJECT NAME:	**ECC TBCW Piezometers**	**WELL NUMBER:**	**PT-6**
PROJECT NUMBER:	21-6585M	**DRILLING DATE:**	6/21/06
PROJECT LOCATION:	Enviro-Chem Site, Zionsville, IN	**FIELD PERSON:**	Doug Burge, P.G.
DRILLING CONTRACTOR:	Earth Exploration, Inc.	**TOTAL DEPTH:**	23 feet
RIG TYPE:	CME75	**WELL DIAMETER / MATERIAL:**	2-inch diameter Schedule 40 PVC

LITHOLOGY DESCRIPTION	DESCRIPTION INTERVAL (ft)	PID (ppm)	Blow Counts (per 6")	GRAPHIC LITHOLOGY	DEPTH (ft bgs)
PT-6 drilled without sampling. Soil description from adjacent boring PS-3-O provided below.			*See PS-3-O log*		0.5, 1, 1.5
Gravel fill.	*0-2.6*	*0*			2, 2.5
Silty clay, little fine sand, trace roots, medium dark gray, stiff, moist.	*2.6-6.8*	*0*			3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7
Silty clay, trace sand, brownish gray, moist.	*6.8-8.7*	*0*			7.5, 8, 8.5
Fine sand, some silty clay, trace pebbles, olive gray, wet.	*8.7-10*	*0*			9, 9.5, 10
Silty clay, trace sand, brownish gray with seam of sand at 10.7 feet.	*10-12.4*	*0*			10.5, 11, 11.5, 12, 12.5
Silty clay till, little fine sand, pebbles, olive gray to medium dark gray, stiff to very stiff, moist.	*12.4-23*	*0*			13, 13.5, 14, 14.5, 15, 15.5, 16, 16.5, 17, 17.5, 18, 18.5, 19, 19.5, 20, 20.5, 21, 21.5, 22, 22.5, 23

WELL CONSTRUCTION DETAIL



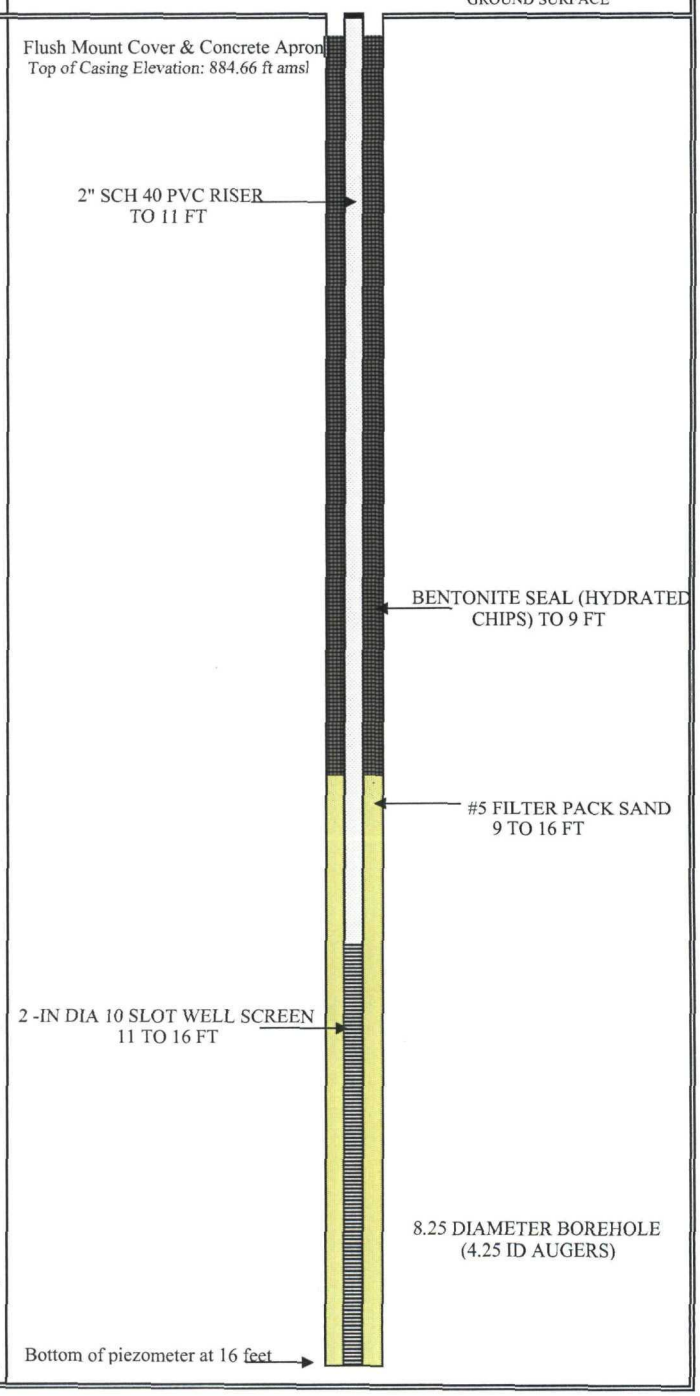
ENVIRON

WELL LOG

PROJECT NAME:	**ECC TBCW Piezometers**	**WELL NUMBER:**	**PT-7**
PROJECT NUMBER:	21-6585M	**DRILLING DATE:**	6/14/06
PROJECT LOCATION:	Enviro-Chem Site, Zionsville, IN	**FIELD PERSON:**	Doug Burge, P.G.
DRILLING CONTRACTOR:	Earth Exploration, Inc.	**TOTAL DEPTH:**	16 feet
RIG TYPE:	D-120 ATV	**WELL DIAMETER / MATERIAL:**	2-inch diameter Schedule 40 PVC

LITHOLOGY DESCRIPTION	DESCRIPTION INTERVAL (ft)	PID (ppm)	Blow Counts (per 6")	GRAPHIC LITHOLOGY	DEPTH (ft bgs)
PT-7 drilled without sampling. Soil description from adjacent boring PS-4 provided below..					0.5
Gravel fill changing to gravel and silty clay fill, loose.	*0-3.5*	*0*	*See PS-4 log*		1--- 1.5 2--- 2.5 3---
Silty clay, trace fine sand, wood, roots, medium dark gray to brownish gray, cohesive, stiff, moist.	*3.5-6*	*0*			3.5 4--- 4.5 5--- 5.5 6---
Fine to medium sand with silty clay, trace coarse sand, brownish gray to yellowish brown, loose, wet.	*6-9.1*	*0*			6.5 7--- 7.5 8--- 8.5 9---
Silty clay till, some to little fine sand, yellowish brown to brownish gray, stiff, moist, with seam of sand at 10.7 feet.	*9.1-13*	*0*			9.5 10--- 10.5 11--- 11.5 12---
Silty clay till, little fine sand, medium to medium dark gray, very stiff, plastic, moist; with sand seam at 14.8 feet.	*13-16*	*0*			12.5 13--- 13.5 14--- 14.5 15--- 15.5 16---

WELL CONSTRUCTION DETAIL

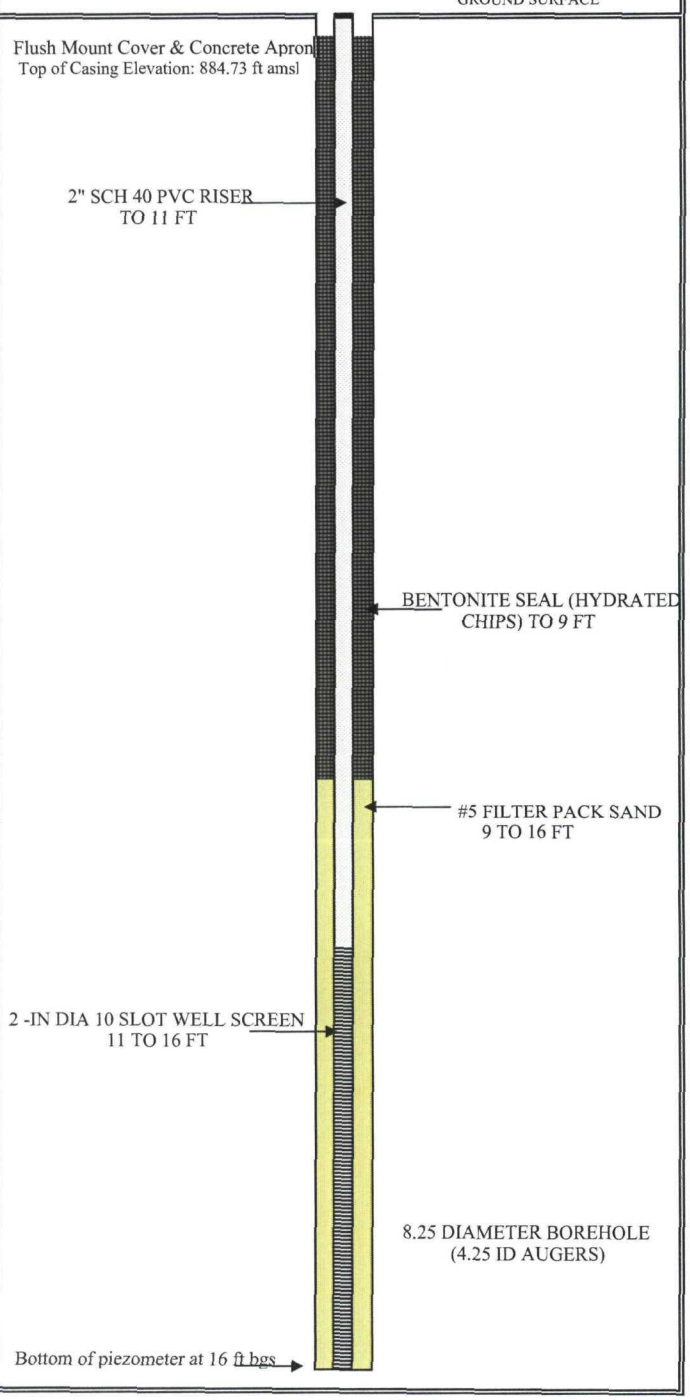


ENVIRON

WELL LOG

PROJECT NAME:	ECC TBCW Piezometers	WELL NUMBER:	PT-8
PROJECT NUMBER:	21-6585M	DRILLING DATE:	6/14/06
PROJECT LOCATION:	Enviro-Chem Site, Zionsville, IN	FIELD PERSON:	Doug Burge, P.G.
DRILLING CONTRACTOR:	Earth Exploration, Inc.	TOTAL DEPTH:	16 feet
RIG TYPE:	D-120 ATV	WELL DIAMETER / MATERIAL:	2-inch diameter Schedule 40 PVC

LITHOLOGY DESCRIPTION	DESCRIPTION INTERVAL (ft)	PID (ppm)	Blow Counts (per 6")	GRAPHIC LITHOLOGY	DEPTH (ft bgs)
PT-8 drilled without sampling. Soil description from adjacent boring PS-4 provided below.					0.5
Gravel fill changing to gravel and silty clay fill, loose.	*0-3.5*	*0*	*See PS-4 log*		1---, 1.5, 2---, 2.5, 3---, 3.5
Silty clay, trace fine sand, wood, roots, medium dark gray to brownish gray, cohesive, stiff, moist.	*3.5-6*	*0*			4---, 4.5, 5---, 5.5, 6---, 6.5
Fine to medium sand with silty clay, trace coarse sand, brownish gray to yellowish brown, loose, wet.	*6-9.1*	*0*			7---, 7.5, 8---, 8.5, 9---, 9.5
Silty clay till, some to little fine sand, yellowish brown to brownish gray, stiff, moist, with seam of sand at 10.7 feet.	*9.1-13*	*0*			10---, 10.5, 11---, 11.5, 12---, 12.5, 13---, 13.5
Silty clay till, little fine sand, medium to medium dark gray, very stiff, plastic, moist; with sand seam at 14.8 feet.	*13-16*	*0*			14---, 14.5, 15---, 15.5, 16---



WELL CONSTRUCTION DETAIL